

Int'l App. No.: PCT/GB99/03280
Int'l Filing Date: 5 October 1999

REMARKS

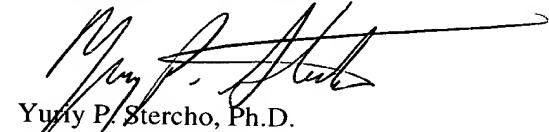
The above-identified application is being entered into the National Phase from PCT application no. PCT/GB99/03280.

Applicants have amended the claims to put them in conformity with the U.S. practice.

Attached hereto is a marked-up version of the changes made to the specification and claims by the current amendment. The attached page is captioned "Version with markings to show changes made."

No new matter has been introduced.

Respectfully submitted,


Yuriy P. Stercho, Ph.D.
Attorney for Applicants
Registration No. 33,797

SMITHKLINE BEECHAM CORPORATION
Corporate Intellectual Property - UW2220
P.O. Box 1539
King of Prussia, PA 19406-0939
Phone (610) 270-5018
Facsimile (610) 270-5090
n\yps\response\P32152\preamcnd

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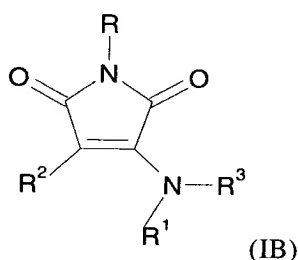
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VERSION WITH MARKINGS TO SHOW CHANGES MADE

In the claims:

2. (Amended) A compound of formula (IB),



or a derivative thereof, wherein:

R is hydrogen, alkyl, aryl, or aralkyl;

R¹ is hydrogen, alkyl, aralkyl, hydroxyalkyl or alkoxyalkyl;

R² is substituted or unsubstituted aryl or substituted or unsubstituted heterocyclyl;

R³ is hydrogen, substituted or unsubstituted alkyl, cycloalkyl, alkoxyalkyl, substituted or unsubstituted aryl, substituted or unsubstituted heterocyclyl or aralkyl wherein the aryl moiety is substituted or unsubstituted; or,

R¹ and R³ together with the nitrogen to which they are attached form a single or fused, optionally substituted, saturated or unsaturated heterocyclic ring;
with the proviso that formula (IB) does not include the following compounds [contained in List B]:

3-(4-methylpiperazin-1-yl)-4-phenyl-pyrrole-2,5-dione;

3-(4-ethylpiperazin-1-yl)-4-phenyl-pyrrole-2,5-dione;

3-(4-chlorophenyl)-4-(4-methyl-piperazin-1-yl)-pyrrole-2,5-dione;

3-[4-(diphenylmethyl)-1-piperazinyl]-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;

3-phenyl-4-(4-methylpiperazino)-pyrrole-2,5-dione;

3-phenyl-4-(4-phenylpiperazino)-pyrrole-2,5-dione;

1-methyl-3-phenyl-4-(4-phenylpiperazino)-pyrrole-2,5-dione;

1-ethyl-3-phenyl-4-(4-chlorophenylpiperazino)-pyrrole-2,5-dione;

1-allyl-3-phenyl-4-(4-methylpiperazino)-pyrrole-2,5-dione;

3-phenylamino-4-phenyl-1H-pyrrole-2,5-dione;

3-phenyl-4-piperidin-1-yl-pyrrole-2,5-dione;

3-(3,5-dimethyl-1-phenyl-1H-pyrazol-4-yl)-4-morpholin-4-yl-pyrrole-2,5-dione;

3-indol-1-yl-4-(1-methyl-1H-indol-3-yl)-pyrrole-2,5-dione;

1-(1-methyl-2,5-dioxo-4-phenylamino-2,5-dihydro-1H-pyrrol-3-yl)-pyridinium chloride;

1-1-(4-methyl-pentyl)-2,5-dioxo-4-phenylamino-2,5-dihydro-1H-pyrrol-3-yl)-pyridinium chloride;

1-(1-dodecyl-2,5-dioxo-4-phenylamino-2,5-dihydro-1H-pyrrol-3-yl)-pyridinium chloride;

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3-[2,5-dihydro-4-(1H-imidazol-1-yl)-1-methyl-2,5-dioxo-1H-pyrrol-3-yl]-1H-indole-1-carboxylic acid, 1,1-dimethylethyl ester;

3-[2-benzo[b]thien-2-yl-3-[4-(dimethylamino)-2,5-dihydro-2,5-dioxo-1H-pyrrol-3-yl]-1H-indol-1-yl]-carbamidodithioic acid, propyl ester;

3-(dimethylamino)-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;

3-(1H-indol-3-yl)-1-methyl-4-(phenylamino)-1H-pyrrole-2,5-dione;

3-(1H-indol-3-yl)-1-methyl-4-[[4-(trifluoromethyl)phenyl]amino]-1H-pyrrole-2,5-dione;

3-(1H-indol-3-yl)-1-methyl-4-(methylamino)-1H-pyrrole-2,5-dione;

3-(1H-imidazo[4,5-b]pyridin-1-yl)-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;

3-(6-chloro-9H-purin-9-yl)-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;

3-(6-amino-9H-purin-9-yl)-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;

3-(1H-indol-3-yl)-1-methyl-4-(1H-pyrrolo[2,3-b]pyridin-1-yl)-1H-pyrrole-2,5-dione;

3-(1H-indol-3-yl)-1-methyl-4-(1-piperidiny)-1H-pyrrole-2,5-dione;

1-acetyl-3-[2,5-dihydro-1-methyl-2,5-dioxo-4-[[4-(trifluoromethyl)phenyl]amino]-1H-pyrrol-3-yl]-1H-indole;

3-(1H-benzimidazol-1-yl)-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;

3-(1H-benzotriazol-1-yl)-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;

3-(1H-imidazol-1-yl)-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;

3-(1H-indol-1-yl)-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;

3-(1H-indazol-1-yl)-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;

3-[3-[(dimethylamino)methyl]-1H-indol-1-yl]-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;

3-(1H-benzimidazol-1-yl)-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione;

3-(1H-indol-1-yl)-4-(1-methyl-1H-indol-3-yl)-1H-pyrrole-2,5-dione;

3-(3,5-dimethyl-1-phenyl-1H-pyrazol-4-yl)-4-(4-morpholinyl)-1H-pyrrole-2,5-dione;

3-amino-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione;

3-amino-4-(5-methoxy-1H-indol-3-yl)-1H-pyrrole-2,5-dione;

1H-Indole-1-carboxylic acid, 3-(4-amino-2,5-dihydro-1-methyl-2,5-dioxo-1H-pyrrol-3-yl)-, 1,1-dimethylethyl ester ;

3-(1H-indol-3-yl)-1-methyl-4-[(phenylmethyl)amino]-1H-pyrrole-2,5-dione;

Glycine, N-[2,5-dihydro-4-(1H-indol-3-yl)-1-methyl-2,5-dioxo-1H-pyrrol-3-yl]-, ethyl ester ;

3-amino-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;

1-(4-methylphenyl)-3-[(4-methylphenyl)amino]-4-phenyl-1H-pyrrole-2,5-dione ;

3-[[3-[(3-aminopropyl)amino]propyl]amino]-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione ;

3-[[3-[4-(3-aminopropyl)-1-piperazinyl]propyl]amino]-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione;

3-(1H-indol-3-yl)-4-[[3-(4-methyl-1-piperazinyl)propyl]amino]-1H-pyrrole-2,5-dione ;

1-[3-[(3-aminopropyl)amino]propyl]-3-[[3-[(3-aminopropyl)amino]propyl]amino]-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione;

1-[3-[4-(3-aminopropyl)-1-piperazinyl]propyl]-3-[[3-[4-(3-aminopropyl)-1-piperazinyl]propyl]amino]-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione;

3-(1H-indol-3-yl)-1-[3-(4-methyl-1-piperazinyl)propyl]-4-[[3-(4-methyl-1-piperazinyl)propyl]amino]-1H-pyrrole-2,5-dione;

3,3'-[iminobis(3,1-propanediylimino)]bis[4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione;

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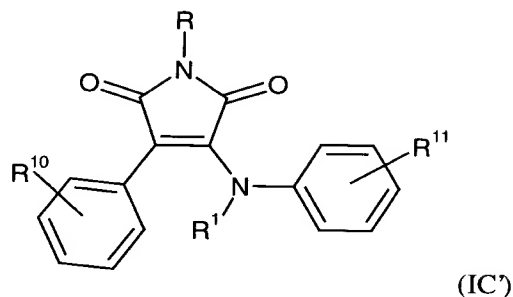
3,3'-[1,4-piperazinediylbis(3,1-propanediylimino)]bis[4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione;
3-amino-4-(3,4-dimethoxyphenyl)-1H-pyrrole-2,5-dione ;
3-[(5-aminopentyl)amino]-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione;
3-[[5-[(2-aminoethyl)amino]pentyl]amino]-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione;
3-[(2-aminoethyl)amino]-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione;
3-[(6-aminohexyl)amino]-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione ;
3-[(7-aminoheptyl)amino]-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione;
3-[[2-[(2-aminoethyl)amino]ethyl]amino]-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione;
Benzenepropanamide, .alpha.-amino-N-[5-[[2,5-dihydro-4-(1H-indol-3-yl)-2,5-dioxo-1H-pyrrol-3-
yl]amino]pentyl]-, (S)- ;
Pentanoic acid, 4-amino-5-[[5-[[2,5-dihydro-4-(1H-indol-3-yl)-2,5-dioxo-1H-pyrrol-3-
yl]amino]pentyl]amino]-5-oxo-, (S)- ;
Pentanamide, 2-amino-5-[(aminoiminomethyl)amino]-N-[2-[[5-[[2,5-dihydro-4-(1H-indol-3-yl)-2,5-
dioxo-1H-pyrrol-3-yl]amino]pentyl]amino]ethyl]-, (S)-;
Benzenepropanamide, .alpha.-amino-N-[2-[[5-[[2,5-dihydro-4-(1H-indol-3-yl)-2,5-dioxo-1H-pyrrol-3-
yl]amino]pentyl]amino]ethyl]-, (S)- ;
Butanamide, 4-[(aminoiminomethyl)amino]-N-[5-[[2,5-dihydro-4-(1H-indol-3-yl)-2,5-dioxo-1H-
pyrrol-3-yl]amino]pentyl]-, (S)- ;
3-(4-methylphenyl)-1-phenyl-4-(phenylamino)-1H-pyrrole-2,5-dione;
1,3-bis(4-methylphenyl)-4-[(4-methylphenyl)amino]-1H-pyrrole-2,5-dione;p
3-amino-1,4-diphenyl-1H-pyrrole-2,5-dione;
3-(4-methylphenyl)-4-(4-morpholinyl)-1-phenyl-1H-pyrrole-2,5-dione ;
3-(4-methylphenyl)-1-phenyl-4-[(phenylmethyl)amino]-1H-pyrrole-2,5-dione;
3-amino-4-(4-methylphenyl)-1-phenyl-1H-pyrrole-2,5-dione ;
3-(3,5-dimethyl-1-phenyl-1H-pyrazol-4-yl)-4-(4-morpholinyl)-1H-pyrrole-2,5-dione;
3-(4-nitrophenyl)-1-phenyl-4-phenylamino-1H-pyrrole-2,5-dione ;
3-amino-1-methyl-4-p-tolyl-1H-pyrrole-2,5-dione;
3-(2-diethylamino-ethylamino)-4-phenyl-pyrrole-2,5-dione;
3-[butyl-(2-diethylamino-ethyl)-amino]-4-phenyl-pyrrole-2,5-dione;
3-[benzyl-(2-dimethylamino-ethyl)-amino]-4-phenyl-pyrrole-2,5-dione;
3-[benzyl-(2-diethylamino-ethyl)-amino]-1-methyl-4-phenyl-pyrrole-2,5-dione;
3-[benzyl-(2-dimethylamino-ethyl)-amino]-4-(4-chloro-phenyl)-pyrrole-2,5-dione;
3-[benzyl-(2-diethylamino-ethyl)-amino]-4-phenyl-pyrrole-2,5-dione;
3-[benzyl-(2-dimethylamino-ethyl)-amino]-4-(3-methoxy-phenyl)-pyrrole-2,5-dione;
3-(4-chloro-phenyl)-4-[2-(4-methyl-piperazin-1-yl)-ethylamino]-pyrrole-2,5-dione;
3-[2-(4-methyl-piperazin-1-yl)-ethylamino]-4-phenyl-pyrrole-2,5-dione;
3-phenyl-4-(diethylamino)-pyrrole-2,5-dione;
3-phenyl-4-(benzylamino)-pyrrole-2,5-dione;
1-methyl-3-phenyl-4-(2-diethylaminoethylamino)-pyrrole-2,5-dione;
1-allyl-3-phenyl-4-(2-dimethylaminoethylamino)-pyrrole-2,5-dione; and;
1,3-diphenyl-4-piperidino-pyrrole-2,5-dione.

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3. (Amended) A compound according to claim 2 of formula (IC')



wherein;

R is hydrogen, alkyl, aryl or aralkyl;

R' is hydrogen, alkyl, aralkyl, hydroxyalkyl or alkoxyalkyl;

[R and R¹ are as defined in relation to formula (I) in claim 1;]

R¹⁰ represents hydrogen or one or more substituents, suitably up to three, selected from the group [list] consisting of: alkoxy carbonyl, alkoxy alkyl, perfluoroalkyl, perfluoroalkylS-, perfluoroalkylO-, phenyl(di-C₁₋₆alkoxy)C-, benzoyl, C₁₋₆alkylSO₂-, -(CH=CH)₂-, phenyl, nitro, -OCH₂O-, benzyloxy, phenoxy, halo, hydroxy, alkyl, alkoxy, amino, mono- or di-alkyl amino and [or] thioalkyl;

R¹¹ represents hydrogen or one or more substituents, suitably up to three, selected from the group [list] consisting of: substituted or unsubstituted C₁₋₆alkyl, phenyl, benzyl, substituted or unsubstituted C₁₋₆alkylS-, halo, hydroxy, substituted or unsubstituted C₁₋₆alkoxy, substituted or unsubstituted phenoxy, indolyl, naphthyl, carboxy, C₁₋₆alkoxy carbonyl, benzyloxy, phenoxy, pentafluorophenoxy, nitro, substituted or unsubstituted carbamoyl, substituted or unsubstituted C₁₋₆alkyl carbonyl, benzoyl, cyano, perfluoroC₁₋₆alkylSO₂-, C₁₋₆alkylNHSO₂-, oxazolyl, substituted or unsubstituted phenylS-, C₁₋₆alkylpiperazinyl-, C₁₋₆alkyl carbonylpiperazinyl-, 1,2,3-thiadiazolyl, pyrimidin-2-yloxy, N-[pyrimidin-2-yl]-N-methylamino, phenylamino, C₁₋₆alkylsulphonylamino, N-morpholinyl carbonyl, cyclohexyl, adamantyl, trityl, substituted or unsubstituted C₁₋₆alkenyl, perfluoroC₁₋₆alkyl, perfluoroC₁₋₆alkoxy, perfluoroC₁₋₆alkylS-, aminosulphonyl, morpholino, (diC₁₋₆alkyl)amino, C₁₋₆alkylCONH-, (diC₁₋₆alkoxy)phenyl(CH₂)_nNHC(O)CH(phenyl)S- where n is 1 to 6, and C₁₋₆alkylCON(C₁₋₆alkyl)-, thiazolidinedionylC₁₋₆alkyl, phenylCH(OH)-, substituted or unsubstituted piperazinylC₁₋₆alkoxy, substituted or unsubstituted benzoylamino; or -(CH₂)_x-, -SCH=N-, -SC(C₁₋₆alkyl)=N-, -OCF₂O-, -[CH=CHC(O)O]-, -[N=CH-CH=CH]-, -CH=N-NH-, -CH=CH-NH-, -OC(NHC₁₋₆alkyl)=N-, -OC(O)NH-, -C(O)NMeC(O)-, -C(O)NHC(O)-, -(CH₂)_xC(O)-, -N=N-NH-, -N=C(C₁₋₆alkyl)O-, -O(CH₂)_xO-, -(CH₂)_xSO₂(CH₂)_y-, and -N(C₁₋₆alkyl carbonyl)(CH₂)_x-, where x and y are independently 1 to 4; with the proviso that (IC') does not include:

3-phenylamino-4-phenyl-1H-pyrrole-2,5-dione;

1-(4-methylphenyl)-3-[(4-methylphenyl)amino]-4-phenyl-1H-pyrrole-2,5-dione;

3-(4-methylphenyl)-1-phenyl-4-(phenylamino)-1H-pyrrole-2,5-dione;

1,3-bis(4-methylphenyl)-4-[(4-methylphenyl)amino]-1H-pyrrole-2,5-dione, or;

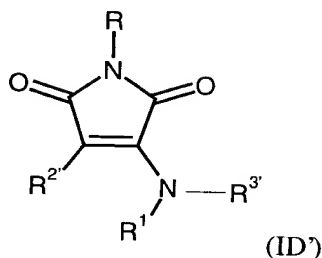
3-(4-nitrophenyl)-1-phenyl-4-phenylamino-1H-pyrrole-2,5-dione.

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5. (Amended) A compound according to claim 2 of formula (ID')



wherein

R is hydrogen, alkyl, aryl or aralkyl;

R' is hydrogen, alkyl, aralkyl, hydroxyalkyl or alkoxyalkyl;

[R and R¹ are as defined in relation to formula (I) in claim 1]

R^{2'} is phenyl, substituted phenyl or indolyl;

R^{3'} is hydrogen, alkyl, cycloalkyl, phenyl, substituted phenyl, C₁₋₆ alkylphenyl wherein the phenyl group is optionally substituted, alkoxyalkyl, substituted or unsubstituted heterocyclyl, with the proviso that formula (ID') does not include the following compounds [contained in List D']:

3-[2-benzo[b]thien-2-yl-3-[4-(dimethylamino)-2,5-dihydro-2,5-dioxo-1H-pyrrol-3-yl]-1H-indol-1-yl]-
carbamimidothioic acid, propyl ester;

3-(dimethylamino)-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;

3-(1H-indol-3-yl)-1-methyl-4-(phenylamino)-1H-pyrrole-2,5-dione;

3-(1H-indol-3-yl)-1-methyl-4-[[4-(trifluoromethyl)phenyl]amino]-1H-pyrrole-2,5-dione;

3-(1H-indol-3-yl)-1-methyl-4-(methylamino)-1H-pyrrole-2,5-dione;

3-(6-chloro-9H-purin-9-yl)-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;

3-(6-amino-9H-purin-9-yl)-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;

1-acetyl-3-[2,5-dihydro-1-methyl-2,5-dioxo-4-[[4-(trifluoromethyl)phenyl]amino]-1H-pyrrol-3-yl]-
1H-indole;

3-amino-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione;

3-amino-4-(5-methoxy-1H-indol-3-yl)-1H-pyrrole-2,5-dione;

1H-Indole-1-carboxylic acid, 3-(4-amino-2,5-dihydro-1-methyl-2,5-dioxo-1H-pyrrol-3-yl)-, 1,1-
dimethylethyl ester;

3-(1H-indol-3-yl)-1-methyl-4-[(phenylmethyl)amino]-1H-pyrrole-2,5-dione;

Glycine, N-[2,5-dihydro-4-(1H-indol-3-yl)-1-methyl-2,5-dioxo-1H-pyrrol-3-yl]-, ethyl ester;

3-amino-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;

3-[[3-[(3-aminopropyl)amino]propyl]amino]-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione;

3-[[3-[4-(3-aminopropyl)-1-piperazinyl]propyl]amino]-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione;

3-(1H-indol-3-yl)-4-[[3-(4-methyl-1-piperazinyl)propyl]amino]-1H-pyrrole-2,5-dione;

1-[3-[(3-aminopropyl)amino]propyl]-3-[[3-[(3-aminopropyl)amino]propyl]amino]-4-(1H-indol-3-yl)-
1H-pyrrole-2,5-dione;

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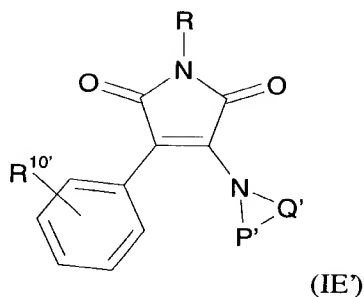
1-[3-[4-(3-aminopropyl)-1-piperazinyl]propyl]-3-[[3-[4-(3-aminopropyl)-1-piperazinyl]propyl]amino]-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione;
3-(1H-indol-3-yl)-1-[3-(4-methyl-1-piperazinyl)propyl]-4-[[3-(4-methyl-1-piperazinyl)propyl]amino]-1H-pyrrole-2,5-dione;
3,3'-[iminobis(3,1-propanediylimino)]bis[4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione];
3,3'-[1,4-piperazinediylbis(3,1-propanediylimino)]bis[4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione];
3-amino-4-(3,4-dimethoxyphenyl)-1H-pyrrole-2,5-dione;
3-[(5-aminopentyl)amino]-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione;
3-[[5-[(2-aminoethyl)amino]pentyl]amino]-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione;
3-[(2-aminoethyl)amino]-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione;
3-[(6-aminohexyl)amino]-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione;
3-[(7-aminoheptyl)amino]-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione;
3-[[2-[(2-aminoethyl)amino]ethyl]amino]-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione;
Benzenepropanamide, .alpha.-amino-N-[5-[[2,5-dihydro-4-(1H-indol-3-yl)-2,5-dioxo-1H-pyrrol-3-yl]amino]pentyl]-, (S)-;
Pentanoic acid, 4-amino-5-[[5-[[2,5-dihydro-4-(1H-indol-3-yl)-2,5-dioxo-1H-pyrrol-3-yl]amino]pentyl]amino]-5-oxo-, (S)-;
Pentanamide, 2-amino-5-[(aminoiminomethyl)amino]-N-[2-[[5-[[2,5-dihydro-4-(1H-indol-3-yl)-2,5-dioxo-1H-pyrrol-3-yl]amino]pentyl]amino]ethyl]-, (S)-;
Benzenepropanamide, .alpha.-amino-N-[2-[[5-[[2,5-dihydro-4-(1H-indol-3-yl)-2,5-dioxo-1H-pyrrol-3-yl]amino]pentyl]amino]ethyl]-, (S)-;
Butanamide, 4-[(aminoiminomethyl)amino]-N-[5-[[2,5-dihydro-4-(1H-indol-3-yl)-2,5-dioxo-1H-pyrrol-3-yl]amino]pentyl]-, (S)-;
3-amino-1,4-diphenyl-1H-pyrrole-2,5-dione;
3-(4-methylphenyl)-1-phenyl-4-[(phenylmethyl)amino]-1H-pyrrole-2,5-dione;
3-amino-4-(4-methylphenyl)-1-phenyl-1H-pyrrole-2,5-dione;
3-amino-1-methyl-4-p-tolyl-1H-pyrrole-2,5-dione;
3-(2-diethylamino-ethylamino)-4-phenyl-pyrrole-2,5-dione;
3-[butyl-(2-diethylamino-ethyl)-amino]-4-phenyl-pyrrole-2,5-dione;
3-[benzyl-(2-dimethylamino-ethyl)-amino]-4-phenyl-pyrrole-2,5-dione;
3-[benzyl-(2-dimethylamino-ethyl)-amino]-1-methyl-4-phenyl-pyrrole-2,5-dione;
3-[benzyl-(2-dimethylamino-ethyl)-amino]-4-(4-chloro-phenyl)-pyrrole-2,5-dione;
3-[benzyl-(2-diethylamino-ethyl)-amino]-4-phenyl-pyrrole-2,5-dione;
3-[benzyl-(2-dimethylamino-ethyl)-amino]-4-(3-methoxy-phenyl)-pyrrole-2,5-dione;
3-(4-chloro-phenyl)-4-[2-(4-methyl-piperazin-1-yl)-ethylamino]-pyrrole-2,5-dione;
3-[2-(4-methyl-piperazin-1-yl)-ethylamino]-4-phenyl-pyrrole-2,5-dione;
3-phenyl-4-(diethylamino)-pyrrole-2,5-dione;
3-phenyl-4-(benzylamino)-pyrrole-2,5-dione;
1-methyl-3-phenyl-4-(2-diethylaminoethylamino)-pyrrole-2,5-dione, and;
1-allyl-3-phenyl-4-(2-dimethylaminoethylamino)-pyrrole-2,5-dione.

6. (Amended) A compound according to claim 2 of formula (IE')

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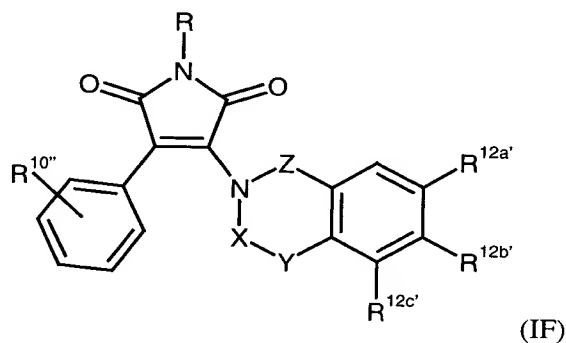
wherein R is hydrogen, alkyl or aralkyl; [as defined in relation to formula (I) in claim 1;]

R^{10'} represents hydrogen or one or more, suitably up to three, substituents selected from the group [list] consisting of: alkoxy, halo, and nitro;

P'-Q' represents -(CH₂)_aO(CH₂)_b-, -(CH₂)_aS(CH₂)_b-, -(CH₂)_c-, -(CH₂)_dCH(G)(CH₂)_e-, -(CH₂)_aN(ZZ)(CH₂)_b-, where a, b, d, and e are independently 1 to 4, c is 1 to 6, ZZ is hydrogen, alkyl, aryl, or alkylcarbonyl, and G is alkyl, amido, hydroxyalkyl, aralkyl, or hydroxy, with the proviso that (IE') does not include:

- 3-phenyl-4-piperidin-1-yl-pyrrole-2,5-dione;
- 3-(4-methylpiperazin-1-yl)-4-phenyl-pyrrole-2,5-dione;
- 3-(4-ethylpiperazin-1-yl)-4-phenyl-pyrrole-2,5-dione;
- 3-(4-chlorophenyl)-4-(4-methyl-piperazin-1-yl)-pyrrole-2,5-dione;
- 3-(4-methylphenyl)-4-(4-morpholinyl)-1-phenyl-1H-pyrrole-2,5-dione
- 3-phenyl-4-(4-methylpiperazino)-pyrrole-2,5-dione;
- 3-phenyl-4-(4-phenylpiperazino)-pyrrole-2,5-dione;
- 1-methyl-3-phenyl-4-(4-phenylpiperazino)-pyrrole-2,5-dione;
- 1-ethyl-3-phenyl-4-(4-chlorophenylpiperazino)-pyrrole-2,5-dione;
- 1-allyl-3-phenyl-4-(4-methylpiperazino)-pyrrole-2,5-dione, and;
- 1,3-diphenyl-4-piperidino-pyrrole-2,5-dione.

7. (Amended) A compound according to claim 2 of formula (IF)



wherein R is hydrogen, alkyl or aralkyl; [as defined in relation to formula (I) in claim 1;]

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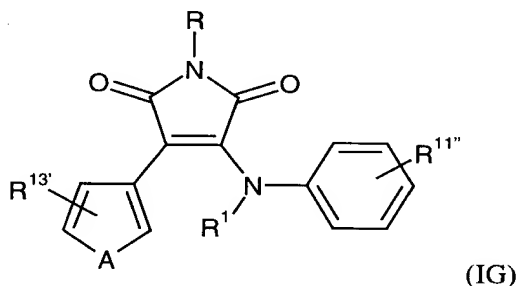
R^{10''} is one or more, suitably up to three, substituents selected from the group [list] consisting of perfluoroalkyl, halo, nitro, alkoxy, arylcarbonyl, and alkyl;

Z is a bond or an alkylene chain;

-X-Y- is -CH=N-, -(CH₂)_t-, -(CH₂)_uCH(U)-, -(U)CH(CH₂)_u-, -CH=CH-, -(CH₂)_vC(alkyl)₂-, -C(O)C(alkyl)₂-, -C(O)O-, where t, u, and v are independently 1 to 4, and U is alkyl, carboxy, alkoxy, alkoxy, hydroxyalkyl, and amido;

R^{12a'}, R^{12b'}, and R^{12c'} are each independently hydrogen, nitro, alkoxy, 4-ethylpiperazin-1-yl, 4-BOC-piperazin-1-yl, 4-methyl-piperazin-1-yl, 4-methyl-piperazin-1-yl, halo, alkyl, piperazin-1-yl, perfluoroalkyl, and alkylsulphonylamino.

8. (Amended) A compound according to claim 2 of formula (IG)



wherein

R is hydrogen, alkyl, aryl or aralkyl;

R' is hydrogen, alkyl, aralkyl, hydroxyalkyl or alkoxyalkyl;

[R and R¹ are as defined in relation to formula (I) in claim 1;]

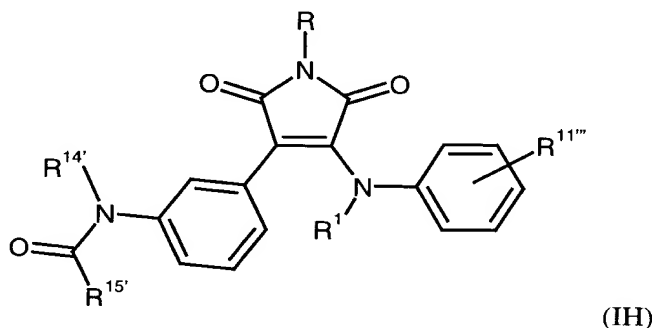
A is N(alkyl), oxygen, or sulphur.

[Examples of A are N(methyl), oxygen, and sulphur.

Preferably, A is sulphur.]

R^{11''} is one or more, suitably up to three, substituents selected from the group consisting of hydrogen, halo, alkyl, alkylthio, -S-CH=N-, phenoxy, -(CH₂)_w-, hydroxy, carboxy, -O(CH₂)_xO-, hydroxyalkyl, and alkylaminosulphonylalkyl, where w and x are independently 1 to 4.

9. (Amended) A compound according to claim 2 of formula (IH)



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wherein

R is hydrogen, alkyl, aryl or aralkyl;

R' is hydrogen, alkyl, aralkyl, hydroxyalkyl or alkoxyalkyl;

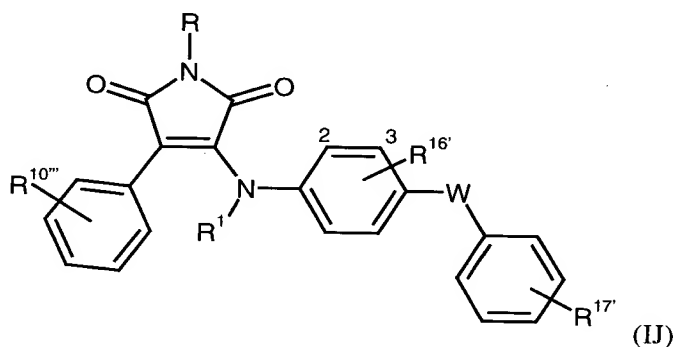
[R and R¹ are as defined in relation to formula (I) in claim 1;]

R^{11'''} is $-(CH_2)_{aa}-$, where aa is 1 to 4;

R^{14'} is hydrogen;

R^{15'} is alkyl, unsubstituted or substituted phenylamino, unsubstituted or substituted phenylalkylamino, cyclohexylamino, alkenylamino, phenyl, benzyl, styryl, or alkylamino.

10. (Amended) A compound according to claim 2 of formula (IJ)



wherein

R is hydrogen, alkyl, aryl or aralkyl;

R' is hydrogen, alkyl, aralkyl, hydroxyalkyl or alkoxyalkyl;

[R and R¹ are as defined in relation to formula (I) in claim 1;]

R^{10'''} represents one or more, suitably up to three, substituents independently selected from alkoxy or halo;

R^{16'} represents one or more, suitably up to three, substituents independently selected from hydrogen, carboxy, alkoxy carbonyl, or alkylaminocarbonyl;

R^{17'} represents one or more, suitably up to three, substituents independently selected from carboxy, alkoxy carbonyl, halo, alkylaminocarbonyl, nitro, or hydrogen;

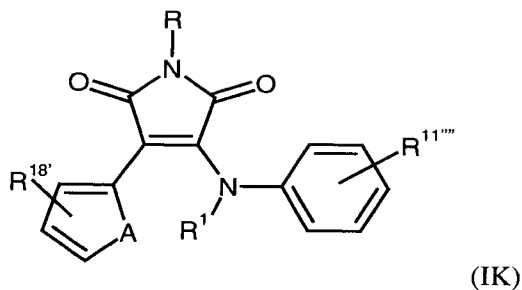
W is sulphur, oxygen, or substituted or unsubstituted NH.

11. (Amended) A compound according to claim 2 of formula (IK)

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wherein

R is hydrogen, alkyl, aryl or aralkyl;

R' is hydrogen, alkyl, aralkyl, hydroxyalkyl or alkoxyalkyl;

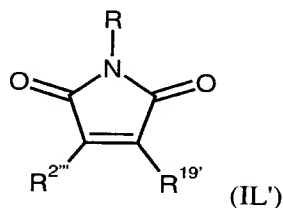
[R and R¹ are as defined in relation to formula (I) in claim 1;]

R^{11'''} represents one or more, suitably up to three, substituents independently selected from halo and hydroxy;

R^{18'} represents one or more, suitably up to three, substituents independently selected from hydrogen, alkyl, and -(CH=CH)₂;

A is sulphur.

12. (Amended) A compound according to claim 2 of formula (IL')



wherein R is hydrogen, alkyl, aryl or aralkyl; [as defined in relation to formula (I) in claim 1;]

R^{2'''} is unsubstituted or substituted heterocyclyl or unsubstituted or substituted aryl;

R^{19'} is unsubstituted or substituted heterocyclyl, or a quaternised salt thereof, with the proviso that formula (IL') does not include the following compounds [contained in List L'.];

3-indol-1-yl-4-(1-methyl-1H-indol-3-yl)-pyrrole-2,5-dione;

1-(1-methyl-2,5-dioxo-4-phenylamino-2,5-dihydro-1H-pyrrol-3-yl)-pyridinium chloride;

1-1-(4-methyl-pentyl)-2,5-dioxo-4-phenylamino-2,5-dihydro-1H-pyrrol-3-yl)-pyridinium chloride;

1-(1-dodecyl-2,5-dioxo-4-phenylamino-2,5-dihydro-1H-pyrrol-3-yl)-pyridinium chloride;

3-[2,5-dihydro-4-(1H-imidazol-1-yl)-1-methyl-2,5-dioxo-1H-pyrrol-3-yl]-1H-indole-1-carboxylic acid, 1,1-dimethylethyl ester;

3-(1H-imidazo[4,5-b]pyridin-1-yl)-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;

3-(1H-indol-3-yl)-1-methyl-4-(1H-pyrrolo[2,3-b]pyridin-1-yl)-1H-pyrrole-2,5-dione;

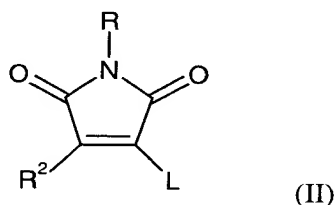
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3-(1H-indol-3-yl)-1-methyl-4-(1-piperidinyl)-1H-pyrrole-2,5-dione;
3-[4-(diphenylmethyl)-1-piperazinyl]-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;
3-(1H-benzimidazol-1-yl)-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;
3-(1H-benzotriazol-1-yl)-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;
3-(1H-imidazol-1-yl)-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;
3-(1H-indol-1-yl)-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;
3-(1H-indazol-1-yl)-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;
3-[3-[(dimethylamino)methyl]-1H-indol-1-yl]-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;
3-(1H-benzimidazol-1-yl)-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione;
3-(1H-indol-1-yl)-4-(1-methyl-1H-indol-3-yl)-1H-pyrrole-2,5-dione, and;
3-(3,5-dimethyl-1-phenyl-1H-pyrazol-4-yl)-4-(4-morpholinyl)-1H-pyrrole-2,5-dione.

13. (Amended) A process for the preparation of a compound of the invention which process comprises reaction of a compound of formula (II):

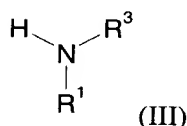


wherein

R is hydrogen, alkyl, aryl, or aralkyl;

R² is substituted or unsubstituted aryl or substituted or unsubstituted heterocyclyl;

[R and R² are as defined in formula (I) in claim 1] and L is a leaving group, with a compound of formula (III):



wherein

R¹ is hydrogen, alkyl, aralkyl, hydroxyalkyl or alkoxyalkyl;

R³ is hydrogen, substituted or unsubstituted alkyl, cycloalkyl, alkoxyalkyl, substituted or unsubstituted aryl, substituted or unsubstituted heterocyclyl or aralkyl wherein the aryl moiety is substituted or unsubstituted;

[R¹ and R³ are as defined in formula (I) in claim 1;] and thereafter, if required, carrying out one or more of the following optional steps:

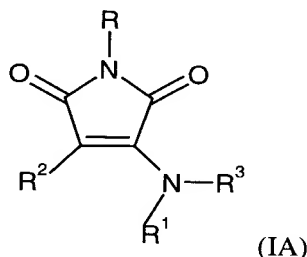
- (i) converting a compound of formula (I) to a further compound of formula (I);
- (ii) removing any necessary protecting group;
- (iii) preparing an appropriate derivative of the compound so formed.

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16. (Amended) A compound of formula (IA)



wherein

R is hydrogen, alkyl, aryl, or aralkyl;

R¹ is hydrogen, alkyl, aralkyl, hydroxyalkyl or alkoxyalkyl;

R² is substituted or unsubstituted aryl or substituted or unsubstituted heterocyclyl;

R³ is hydrogen, substituted or unsubstituted alkyl, cycloalkyl, alkoxyalkyl, substituted or unsubstituted aryl, substituted or unsubstituted heterocyclyl or aralkyl wherein the aryl moiety is substituted or unsubstituted; or,
R¹ and R³ together with the nitrogen to which they are attached form a single or fused, optionally substituted, saturated or unsaturated heterocyclic ring;
or a pharmaceutically acceptable derivative thereof, for use as an active therapeutic substance, with the proviso that formula (IA) does not include the following compounds: [contained in List A.]

3-phenyl-4-(4-methylpiperazino)-pyrrole-2,5-dione;

3-[4-(diphenylmethyl)-1-piperazinyl]-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;

3-phenyl-4-(4-phenylpiperazino)-pyrrole-2,5-dione;

1-methyl-3-phenyl-4-(4-phenylpiperazino)-pyrrole-2,5-dione;

1-ethyl-3-phenyl-4-(4-chlorophenylpiperazino)-pyrrole-2,5-dione;

1-allyl-3-phenyl-4-(4-methylpiperazino)-pyrrole-2,5-dione;

3-indol-1-yl-4-(1-methyl-1H-indol-3-yl)-pyrrole-2,5-dione;

1-(1-methyl-2,5-dioxo-4-phenylamino-2,5-dihydro-1H-pyrrol-3-yl)pyridinium chloride;

1-[1-(4-methyl-pentyl)-2,5-dioxo-4-phenylamino-2,5-dihydro-1H-pyrrol-3-yl]pyridinium chloride;

1-(1-dodecyl-2,5-dioxo-4-phenylamino-2,5-dihydro-1H-pyrrol-3-yl)-pyridinium chloride;

3-[2-benzo[b]thien-2-yl-3-[4-(dimethylamino)-2,5-dihydro-2,5-dioxo-1H-pyrrol-3-yl]-1H-indol-1-yl]-carbamimidothioic acid, propyl ester;

3-(dimethylamino)-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;

3-(1H-indol-3-yl)-1-methyl-4-(phenylamino)-1H-pyrrole-2,5-dione;

3-(1H-indol-3-yl)-1-methyl-4-[[4-(trifluoromethyl)phenyl]amino]-1H-pyrrole-2,5-dione;

3-(1H-indol-3-yl)-1-methyl-4-(methylamino)-1H-pyrrole-2,5-dione;

3-(1H-imidazo[4,5-b]pyridin-1-yl)-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;

3-(6-chloro-9H-purin-9-yl)-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;

3-(6-amino-9H-purin-9-yl)-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;

3-(1H-indol-3-yl)-1-methyl-4-(1H-pyrrolo[2,3-b]pyridin-1-yl)-1H-pyrrole-2,5-dione;

3-(1H-indol-3-yl)-1-methyl-4-(1-piperidinyl)-1H-pyrrole-2,5-dione;

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1-acetyl-3-[2,5-dihydro-1-methyl-2,5-dioxo-4-[[4-(trifluoromethyl)phenyl]amino]-1H-pyrrol-3-yl]-1H-indole;

3-(1H-benzimidazol-1-yl)-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;

3-(1H-benzotriazol-1-yl)-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;

3-(1H-imidazol-1-yl)-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;

3-(1H-indol-1-yl)-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;

3-(1H-indazol-1-yl)-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;

3-[3-[(dimethylamino)methyl]-1H-indol-1-yl]-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;

3-(1H-benzimidazol-1-yl)-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione;

3-(1H-indol-1-yl)-4-(1-methyl-1H-indol-3-yl)-1H-pyrrole-2,5-dione;

3-amino-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione;

3-amino-4-(5-methoxy-1H-indol-3-yl)-1H-pyrrole-2,5-dione;

1H-Indole-1-carboxylic acid, 3-(4-amino-2,5-dihydro-1-methyl-2,5-dioxo-1H-pyrrol-3-yl)-, 1,1-dimethylethyl ester ;

3-(1H-indol-3-yl)-1-methyl-4-[(phenylmethyl)amino]-1H-pyrrole-2,5-dione;

Glycine, N-[2,5-dihydro-4-(1H-indol-3-yl)-1-methyl-2,5-dioxo-1H-pyrrol-3-yl]-, ethyl ester ;

3-amino-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;

3-[3-[(3-aminopropyl)amino]propyl]amino-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione;

[3-[4-(3-aminopropyl)-1-piperazinyl]propyl]amino-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione;

3-(1H-indol-3-yl)-4-[3-(4-methyl-1-piperazinyl)propyl]amino-1H-pyrrole-2,5-dione ;

1-[3-[(3-aminopropyl)amino]propyl]-3-[3-[(3-aminopropyl)amino]propyl]amino-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione;

1-[3-[4-(3-aminopropyl)-1-piperazinyl]propyl]-3-[3-[4-(3-aminopropyl)-1-piperazinyl]propyl]amino-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione;

3-(1H-indol-3-yl)-1-[3-(4-methyl-1-piperazinyl)propyl]-4-[3-(4-methyl-1-piperazinyl)propyl]amino-1H-pyrrole-2,5-dione;

3,3'-[iminobis(3,1-propanediylimino)]bis[4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione];

3,3'-[1,4-piperazinediylbis(3,1-propanediylimino)]bis[4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione];

3-[(5-aminopentyl)amino]-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione;

3-[5-[(2-aminoethyl)amino]pentyl]amino-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione;

3-[(2-aminoethyl)amino]-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione ;

3-[(6-aminohexyl)amino]-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione ;

3-[(7-aminoheptyl)amino]-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione;

3-[2-[(2-aminoethyl)amino]ethyl]amino-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione;

Benzenepropanamide, .alpha.-amino-N-[5-[2,5-dihydro-4-(1H-indol-3-yl)-2,5-dioxo-1H-pyrrol-3-yl]amino]pentyl]-, (S)- ;

Pentanoic acid, 4-amino-5-[5-[2,5-dihydro-4-(1H-indol-3-yl)-2,5-dioxo-1H-pyrrol-3-yl]amino]pentyl]amino]-5-oxo-, (S)- ;

Pentanamide, 2-amino-5-[(aminoiminomethyl)amino]-N-[2-[5-[2,5-dihydro-4-(1H-indol-3-yl)-2,5-dioxo-1H-pyrrol-3-yl]amino]pentyl]amino]ethyl]-, (S)- ;

Benzenepropanamide, .alpha.-amino-N-[2-[5-[2,5-dihydro-4-(1H-indol-3-yl)-2,5-dioxo-1H-pyrrol-3-yl]amino]pentyl]amino]ethyl]-, (S)- ;

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Butanamide, 4-[(aminoiminomethyl)amino]-N-[5-[[2,5-dihydro-4-(1H-indol-3-yl)-2,5-dioxo-1H-pyrrol-3-yl]amino]pentyl]-, (S)-;

3-phenyl-4-(diethylamino)-pyrrole-2,5-dione;

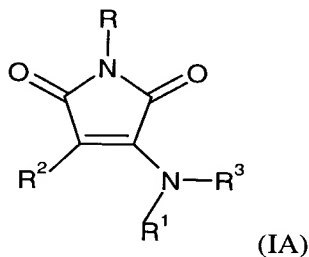
3-phenyl-4-(benzylamino)-pyrrole-2,5-dione;

1-methyl-3-phenyl-4-(2-diethylaminoethylamino)-pyrrole-2,5-dione;

1-allyl-3-phenyl-4-(2-dimethylaminoethylamino)-pyrrole-2,5-dione; and;

1,3-diphenyl-4-piperidino-pyrrole-2,5-dione.

17. (Amended) A pharmaceutical composition which comprises a compound of formula (IA)



wherein

R is hydrogen, alkyl, aryl, or aralkyl;

R¹ is hydrogen, alkyl, aralkyl, hydroxyalkyl or alkoxyalkyl;

R² is substituted or unsubstituted aryl or substituted or unsubstituted heterocyclyl;

R³ is hydrogen, substituted or unsubstituted alkyl, cycloalkyl, alkoxyalkyl, substituted or unsubstituted aryl, substituted or unsubstituted heterocyclyl or aralkyl wherein the aryl moiety is substituted or unsubstituted; or,

R¹ and R³ together with the nitrogen to which they are attached form a single or fused, optionally substituted, saturated or unsaturated heterocyclic ring;

or a pharmaceutically acceptable derivative thereof, and a pharmaceutically acceptable carrier, with the proviso that formula (IA) does not include the following compounds: [contained in List A.]

3-phenyl-4-(4-methylpiperazino)-pyrrole-2,5-dione;

3-[4-(diphenylmethyl)-1-piperazinyl]-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;

3-phenyl-4-(4-phenylpiperazino)-pyrrole-2,5-dione;

1-methyl-3-phenyl-4-(4-phenylpiperazino)-pyrrole-2,5-dione;

1-ethyl-3-phenyl-4-(4-chlorophenylpiperazino)-pyrrole-2,5-dione;

1-allyl-3-phenyl-4-(4-methylpiperazino)-pyrrole-2,5-dione;

3-indol-1-yl-4-(1-methyl-1H-indol-3-yl)-pyrrole-2,5-dione;

1-(1-methyl-2,5-dioxo-4-phenylamino-2,5-dihydro-1H-pyrrol-3-yl)pyridinium chloride;

1-[1-(4-methyl-pentyl)-2,5-dioxo-4-phenylamino-2,5-dihydro-1H-pyrrol-3-yl]pyridinium chloride;

1-(1-dodecyl-2,5-dioxo-4-phenylamino-2,5-dihydro-1H-pyrrol-3-yl)-pyridinium chloride;

3-[2-benzo[b]thien-2-yl-3-[4-(dimethylamino)-2,5-dihydro-2,5-dioxo-1H-pyrrol-3-yl]-1H-indol-1-yl]-carbamimidothioic acid, propyl ester;

3-(dimethylamino)-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;

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3-(1H-indol-3-yl)-1-methyl-4-(phenylamino)-1H-pyrrole-2,5-dione;
3-(1H-indol-3-yl)-1-methyl-4-[[4-(trifluoromethyl)phenyl]amino]-1H-pyrrole-2,5-dione;
3-(1H-indol-3-yl)-1-methyl-4-(methylamino)-1H-pyrrole-2,5-dione;
3-(1H-imidazo[4,5-b]pyridin-1-yl)-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;
3-(6-chloro-9H-purin-9-yl)-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;
3-(6-amino-9H-purin-9-yl)-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;
3-(1H-indol-3-yl)-1-methyl-4-(1H-pyrrolo[2,3-b]pyridin-1-yl)-1H-pyrrole-2,5-dione;
3-(1H-indol-3-yl)-1-methyl-4-(1-piperidinyl)-1H-pyrrole-2,5-dione;
1-acetyl-3-[2,5-dihydro-1-methyl-2,5-dioxo-4-[[4-(trifluoromethyl)phenyl]amino]-1H-pyrrol-3-yl]-
1H-indole;
3-(1H-benzimidazol-1-yl)-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;
3-(1H-benzotriazol-1-yl)-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;
3-(1H-imidazol-1-yl)-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;
3-(1H-indol-1-yl)-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;
3-(1H-indazol-1-yl)-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;
3-[3-[(dimethylamino)methyl]-1H-indol-1-yl]-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;
3-(1H-benzimidazol-1-yl)-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione;
3-(1H-indol-1-yl)-4-(1-methyl-1H-indol-3-yl)-1H-pyrrole-2,5-dione;
3-amino-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione;
3-amino-4-(5-methoxy-1H-indol-3-yl)-1H-pyrrole-2,5-dione;
1H-Indole-1-carboxylic acid, 3-(4-amino-2,5-dihydro-1-methyl-2,5-dioxo-1H-pyrrol-3-yl)-, 1,1-
dimethylethyl ester ;
3-(1H-indol-3-yl)-1-methyl-4-[(phenylmethyl)amino]-1H-pyrrole-2,5-dione;
Glycine, N-[2,5-dihydro-4-(1H-indol-3-yl)-1-methyl-2,5-dioxo-1H-pyrrol-3-yl]-, ethyl ester ;
3-amino-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione;
3-[[3-[(3-aminopropyl)amino]propyl]amino]-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione;
[[3-[4-(3-aminopropyl)-1-piperazinyl]propyl]amino]-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione;
3-(1H-indol-3-yl)-4-[[3-(4-methyl-1-piperazinyl)propyl]amino]-1H-pyrrole-2,5-dione ;
1-[3-[(3-aminopropyl)amino]propyl]-3-[[3-[(3-aminopropyl)amino]propyl]amino]-4-(1H-indol-3-yl)-
1H-pyrrole-2,5-dione;
1-[3-[4-(3-aminopropyl)-1-piperazinyl]propyl]-3-[[3-[4-(3-aminopropyl)-1-
piperazinyl]propyl]amino]-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione;
3-(1H-indol-3-yl)-1-[3-(4-methyl-1-piperazinyl)propyl]-4-[[3-(4-methyl-1-piperazinyl)propyl]amino]-
1H-pyrrole-2,5-dione;
3,3'-[iminobis(3,1-propanediylimino)]bis[4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione];
3,3'-[1,4-piperazinediylbis(3,1-propanediylimino)]bis[4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione];
3-[(5-aminopentyl)amino]-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione;
3-[[5-[(2-aminoethyl)amino]pentyl]amino]-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione;
3-[(2-aminoethyl)amino]-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione ;
3-[(6-aminohexyl)amino]-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione ;
3-[(7-aminoheptyl)amino]-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione;
3-[[2-[(2-aminoethyl)amino]ethyl]amino]-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione;

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Benzenepropanamide, .alpha.-amino-N-[5-[[2,5-dihydro-4-(1H-indol-3-yl)-2,5-dioxo-1H-pyrrol-3-yl]amino]pentyl]-, (S)-;

Pentanoic acid, 4-amino-5-[[5-[[2,5-dihydro-4-(1H-indol-3-yl)-2,5-dioxo-1H-pyrrol-3-yl]amino]pentyl]amino]-5-oxo-, (S)-;

Pentanamide, 2-amino-5-[(aminoiminomethyl)amino]-N-[2-[[5-[[2,5-dihydro-4-(1H-indol-3-yl)-2,5-dioxo-1H-pyrrol-3-yl]amino]pentyl]amino]ethyl]-, (S)-;

Benzenepropanamide, .alpha.-amino-N-[2-[[5-[[2,5-dihydro-4-(1H-indol-3-yl)-2,5-dioxo-1H-pyrrol-3-yl]amino]pentyl]amino]ethyl]-, (S)-;

Butanamide, 4-[(aminoiminomethyl)amino]-N-[5-[[2,5-dihydro-4-(1H-indol-3-yl)-2,5-dioxo-1H-pyrrol-3-yl]amino]pentyl]-, (S)-;

3-phenyl-4-(diethylamino)-pyrrole-2,5-dione;

3-phenyl-4-(benzylamino)-pyrrole-2,5-dione;

1-methyl-3-phenyl-4-(2-diethylaminoethylamino)-pyrrole-2,5-dione;

1-allyl-3-phenyl-4-(2-dimethylaminoethylamino)-pyrrole-2,5-dione; and;

1,3-diphenyl-4-piperidino-pyrrole-2,5-dione.

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